ABSTRACT

A method and system for backing up and restoring a data set on a node of a distributed system prevents conflicts in data replication caused by restoration from backup data. Before a node is backed up, state data of the data set of the node are set to mark the data set as "backed up." The data set also stores a lowest serial number for uncommitted changes. A snapshot of the data set, including the state data, of the node is then taken to provide a backup copy. When the backup copy is later used to restore the data set of the node, the "backed up" value of the state data of the restored data set serves as a notification to the replication server of the node that the data set has been restored, so that the replication server will switch to a new Node ID for labeling new changes for replication to other nodes in the distributed system.